

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PF16409 AD 6891	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2004/005532	International filing date (<i>day/month/year</i>) 19 April 2004 (19.04.2004)	Priority date (<i>day/month/year</i>) 18 April 2003 (18.04.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant E.I. DU PONT DE NEMOURS AND COMPANY			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report 02 March 2006 (02.03.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 90 90

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

Translation

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

<p>To:</p>		<p>Date of mailing (day/month/year)</p>
<p>Applicant's or agent's file reference PF16409</p>		<p>FOR FURTHER ACTION See paragraph 2 below</p>
<p>International application No. PCT/JP2004/005532</p>	<p>International filing date (day/month/year) 19.04.2004</p>	<p>Priority date (day/month/year) 18.04.2003</p>
<p>International Patent Classification (IPC) or both national classification and IPC</p>		
<p>Applicant E. I. DU PONT DE NEMOURS AND COMPANY</p>		

<p>1. This opinion contains indications relating to the following items:</p>	
<input checked="" type="checkbox"/>	<p>Box No. I Basis of the opinion</p>
<input type="checkbox"/>	<p>Box No. II Priority</p>
<input type="checkbox"/>	<p>Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p>
<input type="checkbox"/>	<p>Box No. IV Lack of unity of invention</p>
<input checked="" type="checkbox"/>	<p>Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p>
<input type="checkbox"/>	<p>Box No. VI Certain documents cited</p>
<input type="checkbox"/>	<p>Box No. VII Certain defects in the international application</p>
<input type="checkbox"/>	<p>Box No. VIII Certain observations on the international application</p>
<p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p>	
<p>3. For further details, see notes to Form PCT/ISA/220.</p>	

<p>Name and mailing address of the ISA/JP</p>	<p>Authorized officer</p>
<p>Facsimile No.</p>	<p>Telephone No.</p>

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/005532

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/JP2004/005532

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1 - 6</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>4</u>	YES
	Claims	<u>1 - 3, 5, 6</u>	NO
Industrial applicability (IA)	Claims	<u>1 - 6</u>	YES
	Claims	_____	NO
2. Citations and explanations:			
<p>Document 1: JP 2002-356543 A (Toray Industries, Inc.), 13 December 2002</p> <p>Document 2: JP 2000-159987 A (Toyobo Co., Ltd.), 13 June 2000</p> <p>Claims 1-3, 5 and 6</p> <p>The inventions described in claims 1-3, 5 and 6 do not appear to involve an inventive step over document 1 cited in the ISR.</p> <p>The compound amount of filler, lubricant, flame retardant and crystal nucleator contained in the molding composition, the melting point of the molding composition and the thermal deformation temperature and crystallization rate described in document 1 could be set as necessary by a person skilled in the art.</p> <p>The use of Mg(OH)₂, Al(OH)₃ as the filler agent is a matter that could be easily conceived of by a person skilled in the art.</p> <p>Claim 4</p> <p>The invention described in claim 4 appears to involve an inventive step over documents 1 and 2 cited in the ISR.</p> <p>Documents 1 and 2 do not describe that an injection molding is produced from a molding composition comprising a blend of an aromatic polyester copolymer (a) having terephthalic acid, a sulfonic acid metal salt and an aliphatic dicarboxylic acid as acid components and ethylene glycol and diethylene glycol as glycol components, a polyester copolymer (b) prepared by copolymerization of copolymer (a) with polyalkylene glycol, a branched polyester copolymer (c) prepared by condensation polymerization of copolymer (a) with polyalkylene glycol, and a polyester copolymer (d) having repeating units comprising an aromatic dicarboxylic acid and a glycol component, and the invention of the present application thereby achieves the useful effect of having excellent biodegradability, mechanical strength, heat resistance, moldability and flame resistance.</p>			